APPLIED MATHEMATICS AND COMPUTATION

VOLUME 43

Ryszard Kozera
Existence and Uniqueness in Photometric Stereo 1

Giancarlo Pesamosca
A Fixed Point Algorithm for Solving the Euclidean Multifacility Location Problem in a Tree 105

M. H. Hamdan and R. M. Barron
Analysis of the Darcy-Lapwood and the Darcy-Lapwood-Brinkman Models: Significance of the Laplacian 121

Juan Estalrich and Nathan Buras
Alternative Specifications of State Variables in Stochastic-Dynamic-Programming Models of Reservoir Operation 143

Vira Chankong
Optimality Tests for Partitioning and Sectional Search Algorithms 157

Krystian Kubica and Janina Kuczera
The Effect of the Alkyl Chain Length of Modifier Molecules on Membrane Structure Studied by the Cellular-Automaton Method 183

M. Breinbauer and P. Lory
The Kidney Model as an Inverse Problem 195

Jan Verschelde, Marc Beckers, and Ann Haegemans
A New Start System for Solving Deficient Polynomial Systems Using Continuation 225

C. Martin and J. Miller
Discrete Observability of Nonlinear Systems Using Continuation Techniques 241

Dimitrios Kravvaritis and Nikolaos S. Papageorgiou
An Existence Theorem for an Optimal Economic Growth Problem with Infinite Planning Horizon 249

Bui Doan Khanh
A Numerical Resolution of Differential-Algebraic Equations 261

Behnam B. Malakooti
A Generalized Decomposable Multiattribute Utility Function 271